

Fig. 1

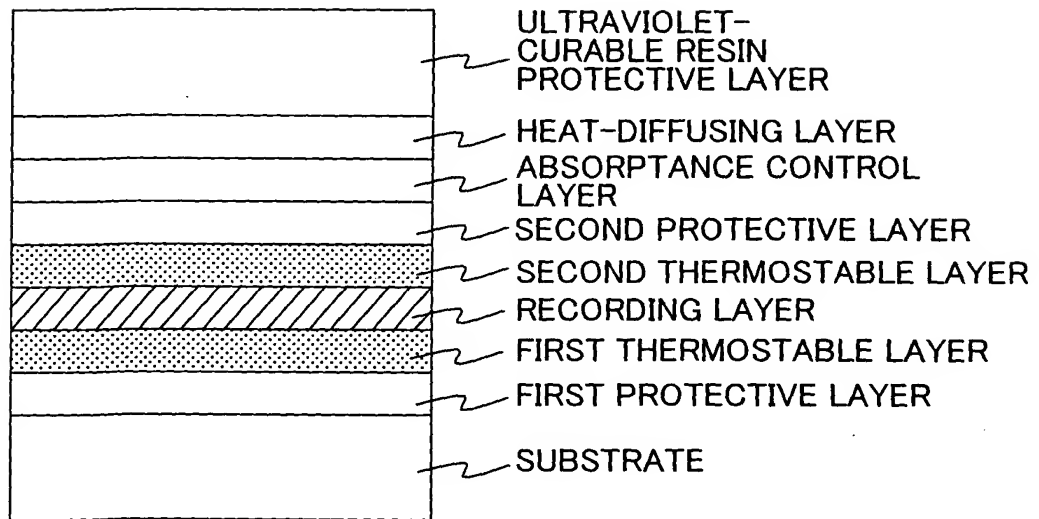


Fig. 2

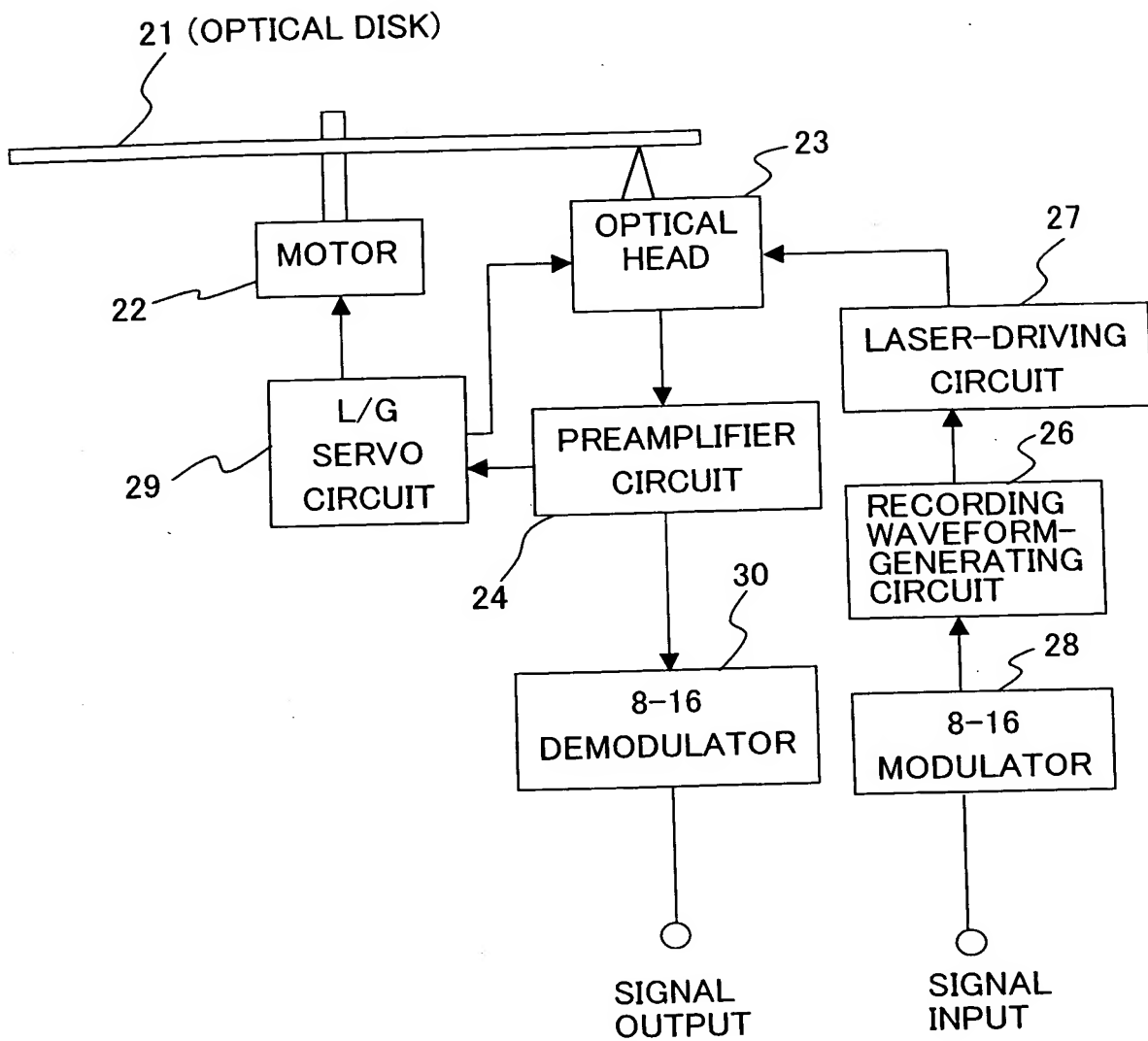


Fig. 3

Sample No.	Composition ratio (at. %)			Inner circumference			Outer circumference			Inner/outer circumferential amplitude ratio	Overall evaluation
	Bi	Ge	Te	Jitter	Rewiring life	Storage life	Jitter	Rewiring life	Storage life		
A1	1	49	50	OK	NG	VG	NG	VG	OK	NG	NG
A2	4	44	52	OK	NG	VG	OK	VG	VG	NG	NG
A3	5	43	52	OK	NG	VG	VG	VG	VG	NG	NG
A4	6	41	53	OK	NG	VG	VG	VG	VG	NG	NG
A5	7	40	53	OK	NG	VG	VG	VG	OK	NG	NG
A6	10	36	54	OK	NG	OK	VG	VG	OK	NG	NG
A7	15	29	56	OK	NG	OK	VG	VG	OK	NG	NG
A8	18	24	58	OK	NG	OK	VG	VG	NG	NG	NG
A9	22	19	59	OK	NG	NG	VG	VG	NG	NG	NG

Fig. 4

Sample No.	Composition ratio (at. %)			Inner circumference				Outer circumference			Inner/outer circumferential amplitude ratio	Overall evaluation
	Bi	Ge	Te	Jitter	Rewiring life	Storage life		Jitter	Rewiring life	Storage life		
B1	1	49	50	VG	NG	VG		NG	VG	OK	NG	NG
B2	2	47	51	VG	VG	VG		OK	VG	VG	VG	OK
B3	3	46	51	VG	VG	VG		VG	VG	VG	VG	VG
B4	6	42	52	VG	VG	VG		VG	VG	VG	VG	VG
B5	7	41	52	VG	VG	VG		VG	VG	VG	VG	VG
B6	12	35	53	OK	OK	OK		VG	VG	OK	OK	OK
B7	19	26	55	OK	OK	OK		VG	VG	OK	OK	OK
B8	21	24	55	OK	OK	NG		VG	VG	OK	OK	NG
B9	25	19	56	OK	OK	NG		OK	VG	OK	OK	NG

Fig. 5

Sample No.	Composition ratio (at. %)			Inner circumference			Outer circumference			Inner/outer circumference~ferential amplitude ratio	Overall evaluation
	Bi	Ge	Te	Jitter	Rewiring life	Storage life	Jitter	Rewiring life	Storage life		
C1	2	48	50	VG	VG	VG	NG	VG	OK	VG	NG
C2	3	47	50	VG	VG	VG	OK	VG	VG	VG	OK
C3	4	46	50	VG	VG	VG	VG	VG	VG	VG	VG
C4	7	43	50	VG	VG	VG	VG	VG	VG	VG	VG
C5	10	41	49	VG	VG	VG	VG	VG	VG	VG	VG
C6	14	37	49	VG	VG	VG	VG	VG	OK	VG	OK
C7	19	32	49	OK	OK	OK	VG	VG	OK	OK	OK
C8	30	22	48	OK	OK	OK	OK	VG	OK	OK	OK
C9	33	19	48	OK	OK	OK	NG	VG	NG	OK	NG

Fig. 6

Sample No.	Composition ratio (at. %)			Inner circumference			Outer circumference			Inner/outer circumferential amplitude ratio	Overall evaluation
	Bi	Ge	Te	Jitter	Rewiring life	Storage life	Jitter	Rewiring life	Storage life		
D1	3	48	49	VG	VG	VG	NG	VG	OK	VG	NG
D2	4	47	49	VG	VG	VG	OK	VG	VG	VG	OK
D3	5	46	49	VG	VG	VG	VG	VG	VG	VG	VG
D4	8	44	48	VG	VG	VG	VG	VG	VG	VG	VG
D5	10	42	48	VG	VG	VG	VG	VG	VG	VG	VG
D6	16	37	47	VG	VG	VG	OK	VG	OK	VG	OK
D7	19	35	46	VG	VG	VG	NG	VG	NG	VG	NG
D8	23	31	46	OK	OK	OK	NG	OK	NG	OK	NG
D9	28	27	45	OK	OK	OK	NG	OK	NG	OK	NG

Fig. 7

Sample No.	Composition ratio (at. %)			Inner circumference			Outer circumference			Inner/outer circumferential amplitude ratio	Overall evaluation
	Bi	Ge	Te	Jitter	Rewiring life	Storage life	Jitter	Rewiring life	Storage life		
E1	2	49	49	VG	VG	VG	NG	VG	OK	VG	NG
E2	3	48	49	VG	VG	VG	NG	VG	OK	VG	NG
E3	8	45	47	VG	VG	VG	NG	VG	OK	VG	NG
E4	11	43	46	VG	VG	VG	NG	VG	OK	VG	NG
E5	13	41	46	VG	VG	VG	NG	VG	NG	VG	NG
E6	16	39	45	VG	VG	VG	NG	OK	NG	VG	NG
E7	20	37	43	VG	VG	VG	NG	OK	NG	VG	NG
E8	24	34	42	VG	VG	VG	NG	OK	NG	VG	NG
E9	27	32	41	OK	OK	OK	NG	OK	NG	OK	NG

Fig. 8

	A	B	C	D	E
1	NG	NG	NG	NG	NG
2	NG	OK	OK	OK	NG
3	NG	VG	VG	VG	NG
4	NG	VG	VG	VG	NG
5	NG	VG	VG	VG	NG
6	NG	OK	OK	OK	NG
7	NG	OK	OK	NG	NG
8	NG	NG	OK	NG	NG
9	NG	NG	NG	NG	NG

Fig. 9

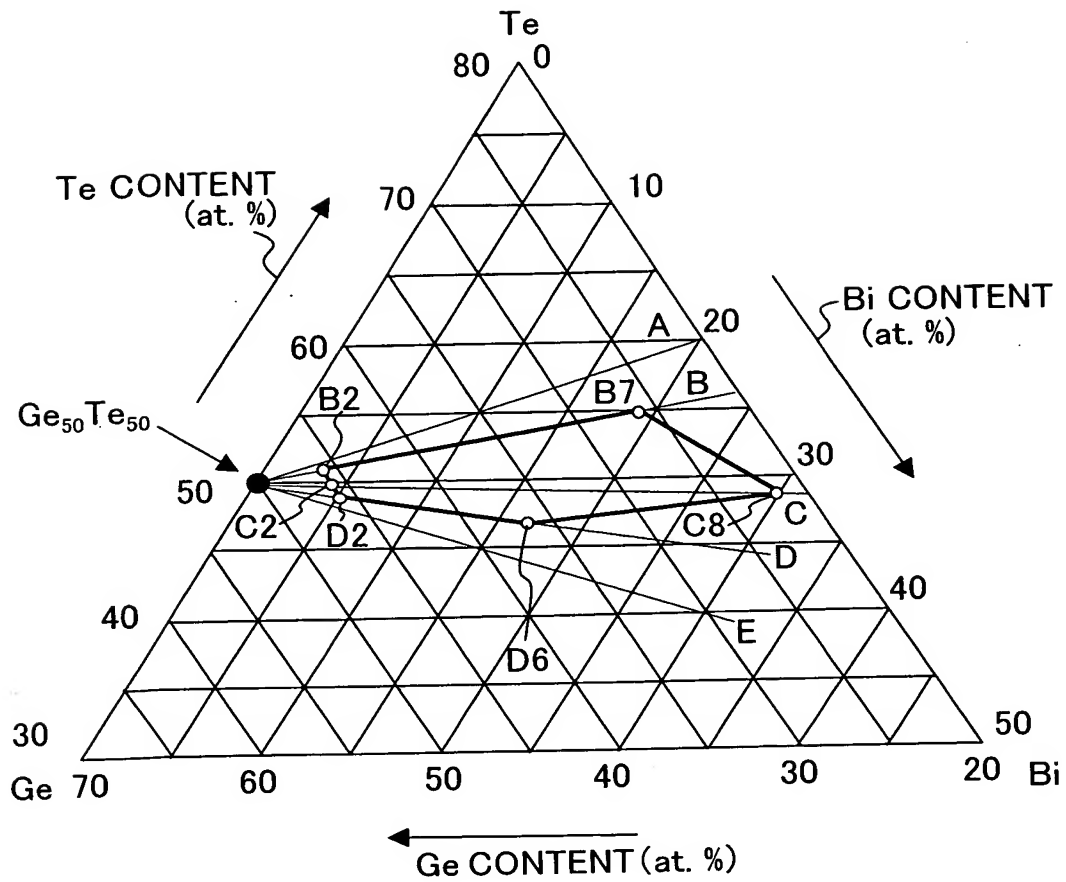


Fig. 10

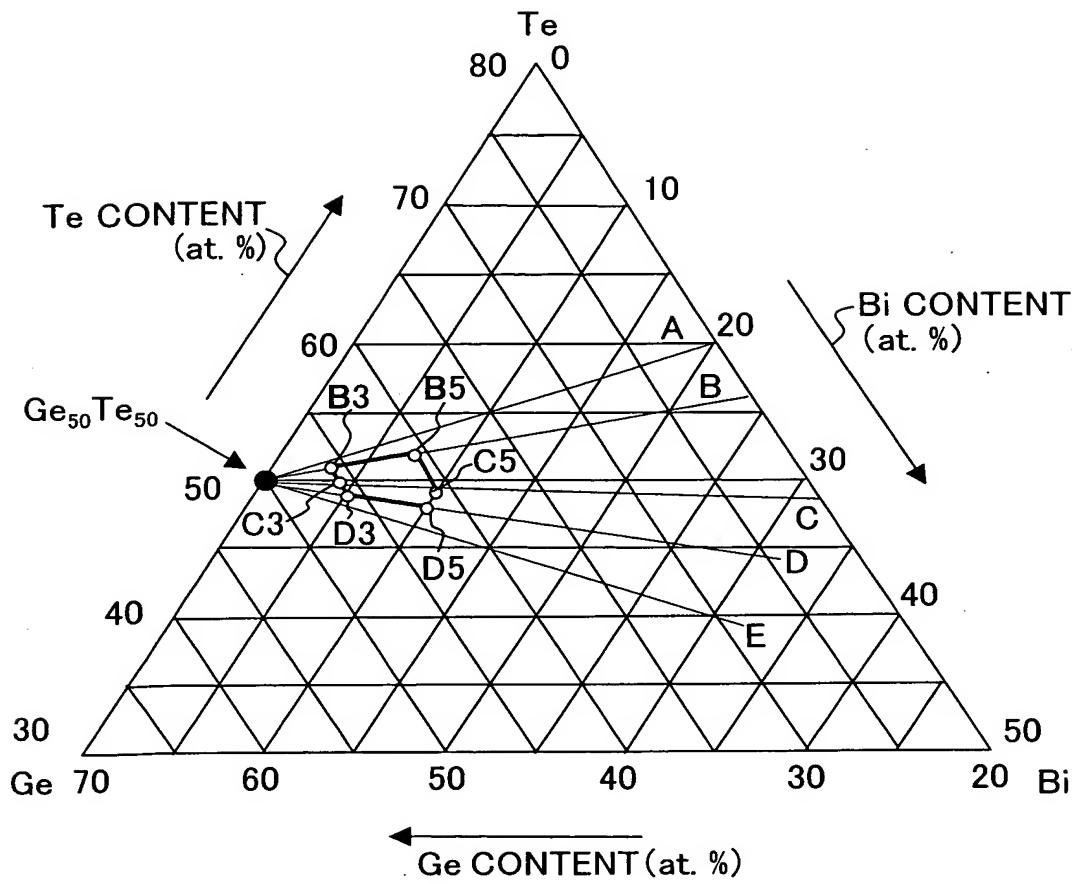


Fig. 11

	A	B	C	D	E
1	NG	NG	NG	NG	NG
2	NG	NG	OK	OK	NG
3	NG	OK	VG	VG	NG
4	NG	OK	VG	VG	NG
5	NG	OK	VG	VG	NG
6	NG	NG	OK	OK	NG
7	NG	NG	OK	NG	NG
8	NG	NG	OK	NG	NG
9	NG	NG	NG	NG	NG

Fig. 12

Sample No.	Composition ratio (at. %)			Inner circumference			Outer circumference			Inner/outer circumferential amplitude ratio	Overall evaluation
	Bi	Ge	Te	Jitter	Rewiring life	Storage life	Jitter	Rewiring life	Storage life		
B1	1	49	50	VG	NG	VG	NG	VG	OK	NG	NG
B2	2	47	51	VG	NG	VG	OK	VG	VG	VG	OK
B3	3	46	51	VG	OK	VG	VG	VG	VG	VG	VG
B4	6	42	52	VG	OK	VG	VG	VG	VG	VG	VG
B5	7	41	52	VG	OK	VG	VG	VG	VG	VG	VG
B6	12	35	53	OK	NG	OK	VG	VG	OK	OK	OK
B7	19	26	55	OK	NG	OK	VG	VG	OK	OK	OK
B8	21	24	55	OK	NG	NG	VG	VG	OK	OK	NG
B9	25	19	56	OK	NG	NG	OK	VG	OK	OK	NG

Fig. 13

Sample No.	Composition ratio (at. %)			Inner circumference			Outer circumference			Inner/outer circumference-ferential amplitude ratio	Overall evaluation
	Bi	Ge	Te	Jitter	Rewiring life	Storage life	Jitter	Rewiring life	Storage life		
F1	1	49	50	VG	NG	VG	NG	VG	OK	NG	NG
F2	2.5	47	50.5	VG	OK	VG	OK	VG	VG	VG	OK
F3	3.5	46	50.5	VG	VG	VG	VG	VG	VG	VG	VG
F4	6.5	42	51.5	VG	VG	VG	VG	VG	VG	VG	VG
F5	7.5	41	51.5	VG	VG	VG	VG	VG	VG	VG	VG
F6	13	35	52	OK	OK	OK	VG	VG	OK	OK	OK
F7	19	27	54	OK	OK	OK	VG	VG	OK	OK	OK
F8	22	24	54	OK	OK	NG	VG	VG	OK	OK	NG
F9	26	19	55	OK	OK	NG	OK	VG	OK	OK	NG

Fig. 14

	A	B	F	C	D	E
1	NG	NG	NG	NG	NG	NG
2	NG	NG	OK	OK	OK	NG
3	NG	OK	VG	VG	VG	NG
4	NG	OK	VG	VG	VG	NG
5	NG	OK	VG	VG	VG	NG
6	NG	NG	OK	OK	OK	NG
7	NG	NG	OK	OK	NG	NG
8	NG	NG	NG	OK	NG	NG
9	NG	NG	NG	NG	NG	NG

Fig. 15

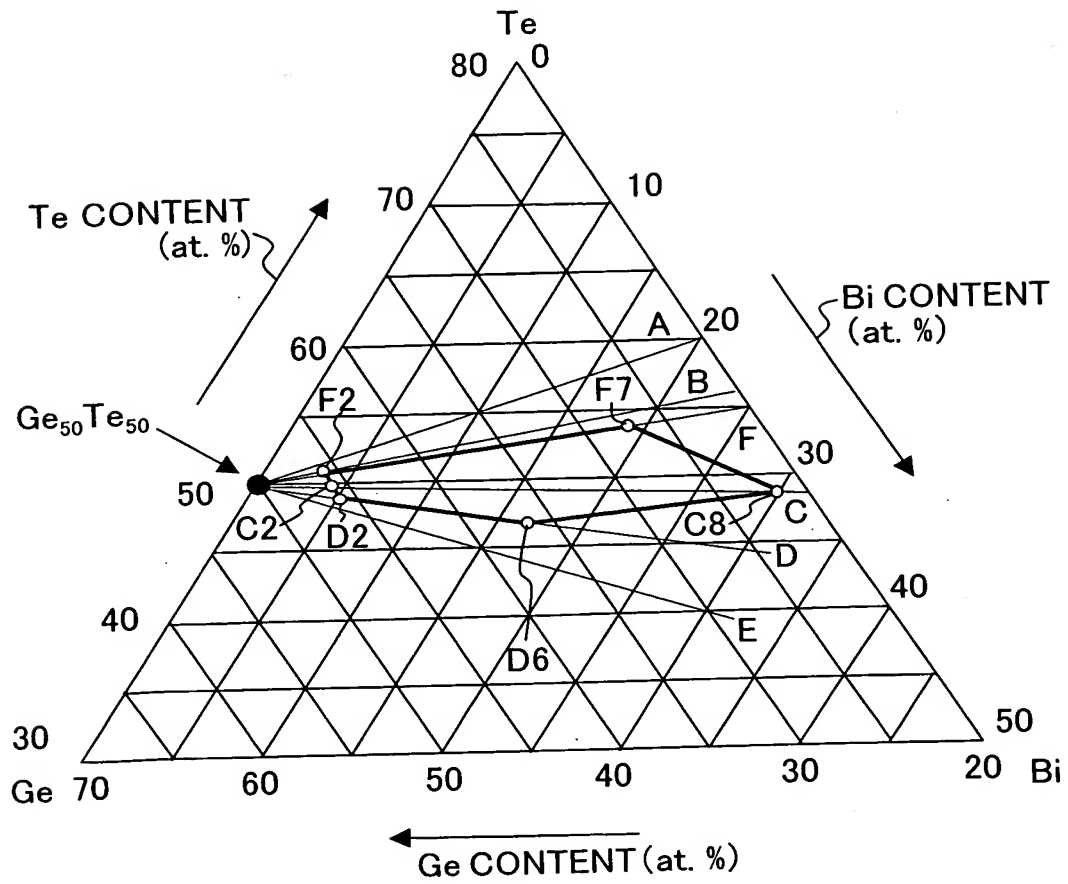


Fig. 16

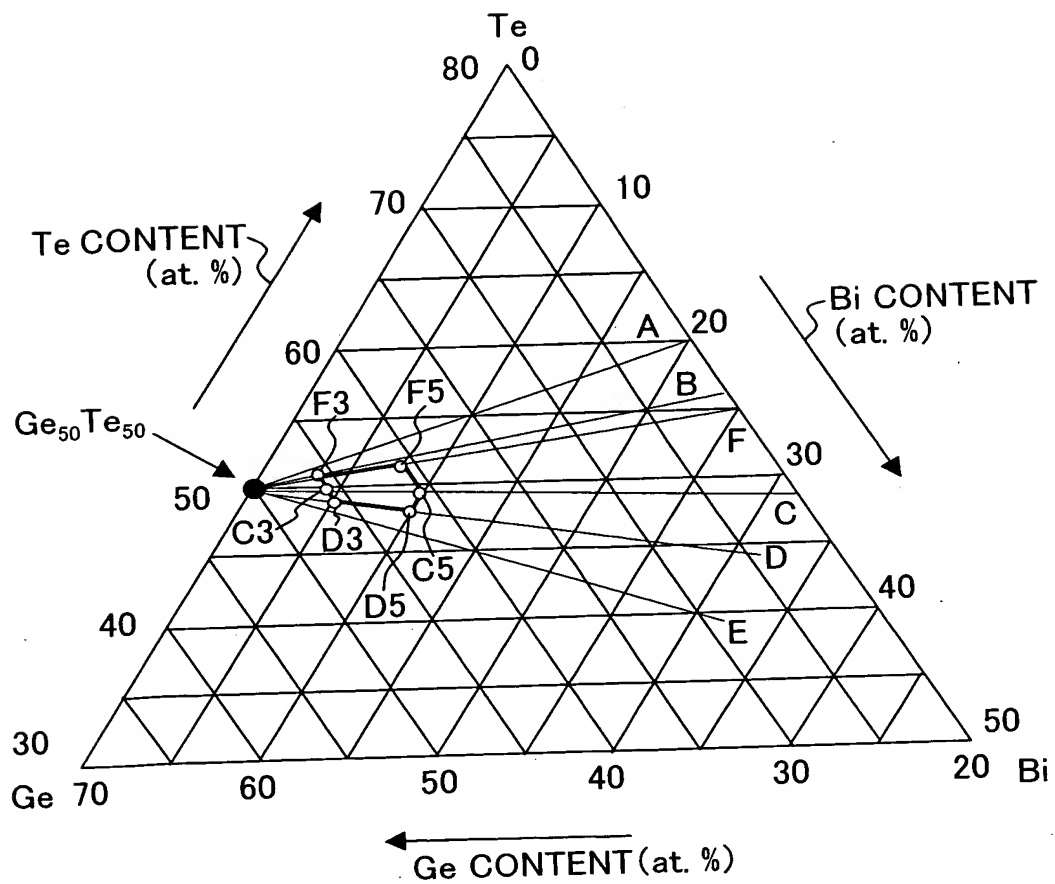


Fig. 17

